

**C. REMARKS/ARGUMENTS**

Reconsideration of the present application, as amended, is respectfully requested.

A substitute specification, including the abstract, is attached hereto along with a marked up version of the filed specification showing the changes made. Also enclosed is a Statement under 37 CFR 1.125 stating that the substitute specification contains no new matter.

As a result of the present amendment, claims 1, 3, and 5-10 remain in the case for continued prosecution.

**D. REJECTIONS UNDER 35 U.S.C. §112, FIRST PARAGRAPH**

The Examiner has rejected claims 1, 3 and 5-10 under 35 U.S.C. §112, 1<sup>st</sup> paragraph for failing to comply with the written description requirement. In response thereto, Applicant submits herewith a substitute specification which clarifies the terminology questioned by the Examiner. As can be seen from the marked-up version, Applicant has made a good faith effort to more completely describe the invention in such a way as to reasonably convey to one skilled in the art that the inventors, at the time the application was filed in Korea, had possession of the claimed invention. No new matter has been added.

In support of the state of the art and the level of ordinary skill, Applicant submits herewith a copy of U.S. Patent Nos. 5,571,460 and 5,972,815. The highlighted passages indicate that those of ordinary skill in the art are well aware of the use of materials which effect the body by virtue of waves and energy.

Reconsideration and removal of the rejection is requested.

**F. REJECTIONS UNDER 35 U.S.C. §112, SECOND PARAGRAPH**

Claim 3 has been amended to independent form and is no longer dependent on claim 1. The phrase “and other elements” objected to by the Examiner has been deleted from the claim.

**G. EXTENSION OF TIME PETITION**

This response is being filed within the shortened period for response. No further fees are believed to be required. If it is determined that any fees are due or any overpayment has been made, the Commissioner is hereby authorized to debit or credit such sum to Deposit Account No. 02-2275.

Pursuant to 37 C.F.R. 1.136(a)(3), please treat this and any concurrent or future reply in this application that requires a petition for an extension of time for its timely submission as incorporating a petition for extension of time for the appropriate length of time. The fee associated therewith is to be charged to Deposit Account No. 02-2275.

**H. CONCLUSION**

In view of the actions taken and arguments presented, it is respectfully submitted that the present application is now in condition for allowance.

An early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

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A vital-matter-composition for increasing preservative  
capability and promoting the growth of living organism and  
a producing-preparing method thereof

FIELD OF THE INVENTION

5       The present invention relates to a vital  
~~mattercomposition~~ of human body, animals and plants  
promoting ~~their~~ the growth of human body, animals and  
plants and increasing preservative capability of animals  
and plants.

10       The present invention also relates to a producing  
method of the ~~vital-matter-composition~~ composed of natural  
substances and compounds by mixing at almost the same ratio  
as that of inorganic substances in human, animals and  
plants.

15       The producing method of the present invention may be  
used in the whole field of industries such as building  
materials, ~~things-of-life~~ home appliances, a medical  
industry and a food industry.

BACKGROUND

20       Natural substances such as yellow soil and silicon  
dioxide mineral, and synthetic ceramic have been used in  
the whole field of industries such as medical instruments  
using infrared-ray and ~~things-of-life~~ home appliances.

25       However, since the above-mentioned things is prepared  
by using the natural substances such as yellow soil and  
white soil as major components, content of a silicate

(SiO<sub>2</sub>) is high, whereas contents of inorganic substances such as ~~potasium~~potassium, calcium, sodium, magnesium and iron are very low. ~~Thus, it is impossible to accomplish sympathy of energy and native wavelength between~~  
5 ~~conventional substances and human body, animals and plants.~~

### SUMMARY OF THE INVENTION

It is an object of this invention to provide a vital matter composition activating ~~original active rhythm~~  
10 physiological activity of human body, animals and plants at a maximum level.

It is a further object of this invention to provide a producing method the ~~vital matter~~ composition.

### DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

~~Since the vital matter of the present invention has a similar composition to a major inorganic substance of human body, the vital matter induces a resonance phenomenon by approaching to human body, animals and plants, so that~~  
20 ~~sympathy of energy and native wavelength between it and animals or plants is maximized.~~

~~In detail, when five or six bronze bells made from the same materials are hang and one of them ring, others ring with the same sound, which is a resonance phenomenon. The~~  
25 ~~resonance phenomenon also occurs when drums or bowls made from the same materials are used for the above experiment.~~

~~However, the resonance phenomenon does not occur if a drum or a bowl rings and vice versa. Therefore, it is demonstrated that things made from the same materials induce sympathy of energy and native wavelength.~~

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~~Otherwise, potassium, calcium, sodium, magnesium and iron are major components of inorganic substances of human body, animals and plants. Thus, the composition of the present invention is prepared by mixing various components at almost the same ratio as that of inorganic components of animals and plants. Sympathy of energy and native wavelength between the composition of the present invention and human body, animals and plants, is maximized to activate active rhythm of human body, animals and plants at maximal level.~~

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The composition of the present invention contains kaoline(white soil) 30.0-40.0wt%, potassium sulfate 15.0-20.0wt%, sodium sulfate 13.0-17.0wt%, feldspar 12.0-16.0wt%, talc 12.0-16.0% and ferric oxide 0.5-1.5wt%. The composition is mixed by a compressed molding method with water, dried and manufactured in random forms. The resulting composition becomes plastic at 1000-1300°C for its use in various forms.

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~~The vital matter composition~~ of the present invention prepared by the above-mentioned composition has components shown in the following Table 1.

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<Table 1> Average ratio of components of composition

Components	Weight ratio (wt%)
Potassium (K)	19.06-23.29wt%
Calcium (Ca)	14.21-17.36wt%
Sodium (Na)	12.30-14.97wt%
Magnesium (Mg)	11.98-14.64wt%
Silicon (Si)	13.74-16.80wt%
Aluminum (Al)	12.21-15.13wt%
Iron (Fe)	3.48-4.26wt%
Titanium (Ti)	0.95-1.17wt%
Manganese (Mn)	0.28-0.40wt%
Zinc (Zn)	0.17-0.20wt%
Germanium (Ge)	0.07-0.09wt%
Selenium (Se)	0.03-0.04wt%
Other elements	1.36-1.67wt%

The major components of the composition of the present invention are potassium, calcium, sodium and magnesium, which ~~is~~ has similar distribution with inorganic substances of human body, animals and plants. In addition, the composition of the present invention has an affinity for silicon and aluminium abundantly contained in soil.

Whereas, as shown in Table 2, general ceramic products contain large amounts of silicon and aluminium, and small amounts of potassium, calcium, sodium and magnesium.

<Table 2> Average ratio of components of general ceramic products

Components	Weight ratio (wt%)
Aluminium (Al)	35.36-43.22wt%
Silicon (Si)	31.33-38.30wt%

Potassium(K)	7.73-9.45wt%
Magnesium(Mg)	3.56-4.36wt%
Iron(Fe)	3.52-4.31wt%
Calcium(Ca)	3.40-4.16wt%
Sodium(Na)	2.79-3.63wt%
Titanium(Ti)	0.03-0.04wt%
Other elements	2.10-2.57wt%

The ratio of components of general yellow soil ceramic is shown in Table 3.

5 <Table 3> Average ratio of components of general yellow soil ceramic

Components	Weight ratio(wt%)
Silicon dioxide( $\text{SiO}_2$ )	64.08-79.42wt%
Aluminium oxide( $\text{Al}_2\text{O}_3$ )	9.45-11.55wt%
Sodium oxide( $\text{NaO}_2$ )	3.32-4.02wt%
Ferric oxide( $\text{Fe}_2\text{O}_3$ )	2.93-3.58wt%
Potassium oxide( $\text{K}_2\text{O}$ )	2.22-2.71wt%
Other elements	8.02-9.80wt%

As shown in Table 3, the general yellow soil ceramic contains mostly silicon and aluminium as major components, and small amounts of potassium, calcium, sodium and magnesium which are associated with human body, animals and plants. ~~Thus, sympathy of energy and native wavelength between the general yellow soil ceramic and human body, animals and plants, does not occur.~~

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Hereinafter, the present invention is described in detail.

### EXAMPLES

Practical and presently preferred embodiments of the present invention are illustrative as shown in the following Examples.

5        However, it will be appreciated that those skilled in the art, on consideration of this disclosure, may make modifications and improvements within the spirit and scope of the present invention.

#### 10        Example 1: Preparation of the vital-matter composition

The composition of the present invention contains the following components: i) Kaoline (white soil) 30-40wt%; ii) potassium sulfate 15.0-20.0wt%; iii) sodium sulfate 13.0-17.0wt%; iv) feldspar 12.0-16.0wt%; v) talc 12.0-16.0%; and  
15        vi) ferric oxide 0.5-1.5wt%.

In the above composition, potassium sulfate and sodium sulfate may be replaced by the same amounts of potassium chloride and sodium chloride ions. However, because a moisture drying efficiency of sulfate salts are  
20        better than that of chloride salts, the present inventors selected potassium sulfate and sodium sulfate to increase the moisture drying efficiency.

The composition was manufactured in form of minute powder of 100-150 mesh. After the composition was mixed by  
25        the compressed molding method or with 20-30wt% of water to mold in the fixed form, it was dried by hot wind at 40-80°C for 10-15 hours and heated 1000-1300°C for 2-3 hours to be



plastic. The manufactured composition was prepared in various forms to be used for various industry.

The composition of the present invention activated ~~active rhythm~~ physiological activity of human body, animals and plants at a maximum level ~~by inducing sympathy of energy and native wavelength between it and human body, animals and plants.~~ In addition, ~~this~~ Such activation by the composition of the present invention was superior to that by conventional ceramic products.

Generally, infrared-ray irradiation of silicon is higher than that of potassium. Whereas, the composition of the present invention was excellent in ~~bioaffinity~~ biological effect on the living organisms. ~~and sympathy of energy and native wavelength between it and human body, animals and plants.~~

**Experiment 1: Physiological reactivity of the composition of the present invention and general ceramic products**

The present inventors performed the physiological reactivity experiment of the composition and general ceramic products, and compared their physiological reactivities. The result was shown in Table 4.

<Table 4> The results of comparing the physiological reactivity.

Item	Refinement velocity of	Refinement velocity of	deodorization of	Freshness of
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	coffee taste	tobacco	Refrigerator	vegetables
Yellow ceramic	10 hours* (3 hours)	10 hours* (3 hours)	No effect	No effect
Medical ceramic	10 min* (20 sec)	5 min* (5 sec)	From 2 hours after starting	180% increase
Industrial ceramic	5 hours* (1 hour)	1 hour* (30 min)	From 5 hours after starting	130% increase
The composition of the present invention	30 sec* (10 sec)	20 sec* (2 sec)	From 30 min after starting	250% increase

<\*:the experiment was performed at room temperature, ( ):  
the experiment was performed at 50°C.

5 The composition of the present invention was superior  
to the conventional ceramic products in ~~acting velocity and~~  
~~efficiency of refinement toward advantages of living body~~  
exerting much more advantageous effects on the living  
organisms more rapidly.

10 In addition, the composition was prepared in form of  
minute powder of 200-350 mesh and mixed with synthetic  
resin to the concentration of 5-30%. The resulting mixture  
can be used in various forms for industry.

15 For example, after the composition of the present  
invention was added to polyethylene film which has been  
used a vinyl house for cultivating plants, the present  
inventors cultivated the crops using the vinyl house made  
from the ployethylene film containing the composition of  
the present invention and the vinyl house made from general  
polyethylene film. The results was shown in Table 5.

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<Table 5> The results of cultivating the crops

crop	Average yield		
	Polyethylene film	Polyethylene film containing the component	Comparison (increasing ratio)
Chinese cabbage	416 kg	499 kg	20% increase
Cucumber	422 kg	527 kg	25% increase
Tomato	575 kg	719 kg	25% increase
Red pepper	179 kg	250 kg	40% increase

(increase per 100 m<sup>2</sup> of cultivation areas)

As shown in Table 5, when the synthetic resin containing the composition of the present invention was used, the yield of the crops was increased more about 20-40% than that when the general synthetic resin was used. Therefore, these results demonstrate that the composition of the present invention accelerates physiological activity of plants.

#### INDUSTRIAL APPLICABILITY

The composition of the present invention, ~~a vital matter of human body, animals and plants,~~ can maximize ~~sympathy of an activation energy and a native wavelength~~ physiological activity of the ~~between it and human body,~~ animals and plants. Thus, the composition of the present invention can be used for industry and will cause the original changes in the field of industrial matters.

In detail, for example, the composition of the present

invention can be used all the industries including building materials and raw materials of various synthetic resins (especially, vinyl, plastic, etc.), various food containers, cosmetics and cosmetics containers, various medical instruments (especially, medical instruments using far infrared-ray), medicines and medicines containers, containers for cultivating various plants, deodorants and chemical products such as agricultural chemicals. Therefore, it is expected that the composition of the present invention, ~~the vital matter of human body, animals and plants,~~ will promote the welfare of human beings such as improvement of health and life of human.

Those skilled in the art will appreciate that the conceptions and specific embodiments disclosed in the foregoing description may be readily utilized as a basis for modifying or designing other embodiments for carrying out the same purposes of the present invention. Those skilled in the art will also appreciate that such equivalent embodiments do not depart from the spirit and scope of the invention as set forth in the appended claims.

### ABSTRACT OF THE DISCLOSURE

The present invention relates a ~~vital-matter~~  
composition promoting the growth, and increasing  
preservative capability of human body, animals and plants.

5 The ~~vital-matter~~composition of the present invention  
maximizes ~~active rhythms~~physiological activity of human  
body, animals and plants. ~~by inducing sympathy of energy~~  
~~and native wavelength between it and animals or plants.~~

In addition, the present invention relates a producing  
10 method of the ~~vital-matter~~composition composed of the  
following steps: 1) preparing a composition containing  
kaoline (white soil) 30-40wt%, potassium sulfate 15.0-  
20.0wt%, sodium sulfate 13.0-17.0wt%, feldspar 12.0-16.0wt%,  
talc 12.0-16.0% and ferric oxide 0.5-1.5wt%; and 2) mixing  
15 the above-mentioned composition using a compressed molding  
method; and 3) heating the mixed composition at 1000-1300°C.

The ~~vital-matter~~composition of the present invention  
can be used in whole fields of industries, and will cause  
the original changes in in the field of industrial matters,  
20 and promote the welfare of human beings such as improvement  
of health and life of human.